Object-Oriented Programming Language – Midterm

(Part I, No Compiler, open textbook and notes, 20 minutes, 試卷隨答案卷繳回)

10/17/2013

Name: _		
ID:		

1. (20%) What is the type of i in the following code fragment?

```
(a)
 struct Coord {
    double x;
    double y;
 Coord i;
 (b)
 int a = 6;
 int& r = a;
auto i = r;
 (c)
int a = 6;
double b = 4.0;
auto i = a + b;
 (d)
vector<int> v;
auto i = v.cbegin();
array<string,5> coll = { "hello", "world" };
for (auto i=0; i<coll.size(); ++i) {</pre>
```

2. (6%) Consider a header file Fraction.h and a class definition Fraction Fraction.h

(a) Implement a default constructor directly in the class definition using **an initializer** list. We shall initialize denom with the value of 2 and numer with the value of 5.

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- (b) Implement a default constructor in Fraction.cpp using **an initializer list**. We shall initialize denom with the value of 2 and numer with the value of 5.
- 3. (4%) What is wrong with the following code fragment? How might you correct it?

```
list<int> lst1;
list<int>::iterator iter1 = lst1.begin(), iter2 = lst1.end();
while (iter1 < iter2)
{
    /*do something */
}</pre>
```